

Work Order ID 70215

Tuesday, May 31, 2011 1:18:00 PM



Ship Monday June 6 Page 1

Item ID: D412-702-023

Accept



Setup Start



Revision ID:

Item Name: 5-Man Shoulder Harness, 4 point

Stop



Start Date: 5/31/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 6/3/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: MF Date: 11-05-31 Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
N/A	Rev E

100 0.00



DOCUMENT CONTROL

DC Memo 0.00

Document Control Photocopy bluefile and create labels per PPP D412-702-023 CHG003

8/6/03

JB CL 11-6-1

110 0.00



Pick Kit

Packaging Memo 0.00

Packaging

JB 11/06/01

120 0.00



QC4- 100% Inspect kits for completeness

QC Memo 0.00

Quality Control

8/6/03

(XL)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Item ID: D412-702-023

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Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

0.00



Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-702-023

Location: B11/6/3 (1)

140

0.00



QC

QC21- Final Inspection - Work Order Release

Memo

0.00

Quality Control

11/6/3 (1)UMF
11-06-03

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 1

Work Order ID: 70215

Parent Item: D412-702-023

Parent Item Name: 5-Man Shoulder Harness, 4 point



Start Date: 5/31/2011

Required Date: 6/3/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B Removed Manufacturing 05-11-08 JLM
 IPP Rev:C 06.04.03 As per DSI9324 JLM
 IPP rev D 06.12.14 per ecn 871 EC
 IPP Rev:E 07-03-14 As per DSI 9351 JLM
 Rev.F 11.05.31 DSI 9559 EC verified by: JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-13A Bolt		Purchased	No			120	Each	142.0000	4	4			
<div>Location</div> <div>ST357</div> <div>117628</div> <div>Loc Qty</div> <div>142</div> <div>142</div> <div>Loc Code</div>													
D3195-041 Bracket Assembly		Manufactured	No			120	Each	2.0000	2	2			
<div>Location</div> <div>ST246A</div> <div>68998</div> <div>Loc Qty</div> <div>2</div> <div>2</div> <div>Loc Code</div>													
D3195-043 Bracket Assembly		Manufactured	No			120	Each	4.0000	2	2			
<div>Location</div> <div>ST246A</div> <div>68988</div> <div>Loc Qty</div> <div>4</div> <div>4</div> <div>Loc Code</div>													
D3196-1 Bar		Manufactured	No			120	Each	3.0000	1	1			
<div>Location</div> <div>ST260</div> <div>69326</div> <div>Loc Qty</div> <div>3</div> <div>3</div> <div>Loc Code</div>													

JB

JB

JB

11/06/01

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Picklist Print

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Work Order ID: 70215

Parent Item: D412-702-023

Parent Item Name: 5-Man Shoulder Harness, 4 point

Start Date: 5/31/2011

Required Date: 6/3/2011

Start Qty: 1.00

Required Qty: 1.00

D3197-041

Manufactured No

120

Each

0.0000

2

2

②

Bar Assembly

D3268-1

Manufactured No

120

Each

4.0000

2

2

✓

Placard

Location

Loc Qty

Loc Code

ST246A

4

64841

4

64841

D3546-1

Manufactured No

120

Each

2.0000

2

2

✓

Clip

Location

Loc Qty

Loc Code

ST245

2

66797

2

66797

D3551-11

Manufactured No

120

Each

17.0000

5

5

✓

Hook and Loop Tie

Location

Loc Qty

Loc Code

ST246A

17

68427

17

68247

D412-702-069

Manufactured No

120

Each

3.0000

1

1

✓

Grommet

Location

Loc Qty

Loc Code

FG122

3

62206

3

62206

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Shop Packet Print

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Picklist Print

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Work Order ID: 70215

Parent Item: D412-702-023

Parent Item Name: 5-Man Shoulder Harness, 4 point

Start Date: 5/31/2011

Required Date: 6/3/2011

Start Qty: 1.00

Required Qty: 1.00

D4387-041

Manufactured No

120

Each

51.0000

5

15



Harness Assembly

Location

Loc Qty

Loc Code

ST263

51

70053

24

70055

27

70053

MS24694-S152

Purchased

No

120

Each

61.0000

2

2



Screw

Location

Loc Qty

Loc Code

ST289A

61

116440

61

116440

MS24694-S154

Purchased

No

120

Each

50.0000

2

2



SCREW

Location

Loc Qty

Loc Code

ST290

50

116328

8

117601

42

117601

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

S

QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11	HOOK AND LOOP TIE
2	2					D3546-1	GLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS
REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		CHG 002 and subsequent
	D412-702-027		CHG 002 and subsequent
	D412-702-029		CHG 002 and subsequent
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent






Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNESS CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD	
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